## What is claimed is:

- 1 1. A capacitor, comprising:
- a first electrode, a second electrode, and a dielectric disposed between
- 3 the first and second electrodes;
- a first plurality of terminals electrically connected to the first electrode at a
- 5 first surface of the capacitor; and
- a second plurality of terminals electrically connected to the second
- 7. electrode at the first surface of the capacitor.
- 1 2. The capacitor of Claim 1, further comprising:
- a third plurality of terminals electrically connected to the first electrode at a
- second surface of the capacitor; and
- a fourth plurality of terminals electrically connected to the second
- 5 electrode at the second surface of the capacitor.
- 1 3. The capacitor of Claim 1, wherein the first electrode comprises tantalum,
- the second electrode comprises conductive material, and the dielectric
- 3 comprises tantalum oxide.
- 1 4. The capacitor of Claim 1, wherein the first electrode comprises a first
- 2 metal, the second electrode comprises manganese oxide, and the dielectric
- 3 comprises an oxide of the first metal.

- 1 5. The capacitor of Claim 1, wherein the capacitor has a rectangular shape.
- 1 6. The capacitor of Claim 1, wherein the first electrode comprises aluminum,
- the second electrode comprises conductive material, and the dielectric
- 3 comprises aluminum oxide.
- 1 7. The capacitor of Claim 1, wherein the first electrode comprises niobium,
- the second electrode comprises conductive material, and the dielectric.
- 3 comprises niobium oxide.
- 1 8. The capacitor of Claim 1, wherein at least a portion of the first and second
- 2 plurality of terminals comprise solder bumps.
- 1 9. The capacitor of Claim 2, wherein at least a portion of the third and fourth
- 2 plurality of terminals comprise solder bumps.
- 1 10. The capacitor of Claim 2, wherein at least a portion of the first plurality of
- 2 terminals have a first pitch, and at least a portion of the third plurality of terminals
- 3 have a second pitch which is different from the first pitch.
- 1 11. The capacitor of Claim 2, wherein at least a portion of the first plurality of
- terminals have a first shape, and at least a portion of the third plurality of
- terminals have a second shape which is different from the first shape.

- 1 12. The capacitor of Claim 1, wherein at least a portion of the first and second
- 2 plurality of terminals are at least partially coated with an oxidation barrier.
- 1 13. The capacitor of Claim 11, wherein the oxidation barrier comprises gold.
- 1 14. A capacitor having a rectangular box shape with a first and a second
- 2 major surface, comprising:
- a first electrode and a second electrode, the electrodes having a dielectric
- 4 disposed therebetween;
- a plurality of terminals attached to the first electrode at the first major
- 6 surface; and
- 7 a plurality of terminals attached to the second electrode at the first major
- 8 surface.
- 1 15. The capacitor of the Claim 14, wherein the electrodes and terminals
- 2 comprise tantalum, and the dielectric comprises tantalum oxide.
- 1 16. The capacitor of Claim 14, further comprising a plurality of terminals
- 2 attached to the first electrode at the second major surface.
- 1 17. The capacitor of Claim 14, further comprising a plurality of terminals
- 2 attached to the second electrode at the second major surface.

- 1 18. An electronic assembly, comprising:
- an integrated circuit having a width and a length;
- a capacitor having a width and a length;
- 4 wherein the capacitor is attached to the integrated circuit, and the width
- and length of the capacitor are substantially the same as the width and length of
- 6 the integrated circuit.
- 1 19. The capacitor of Claim 18, wherein the capacitor has a plurality of first
- 2 electrode terminals on a first surface thereof, and a plurality of second electrode
- 3 terminals on the first surface.
- 1 20. An electronic assembly, comprising:
- a capacitor having a first electrode, a second electrode, and a dielectric
- disposed therebetween, the capacitor further having a first and a second major
- 4 surface;
- a first plurality of terminals electrically coupled to the first electrode, and a
- second plurality of terminals electrically coupled to the second electrode;
- 7 an IC having a third and fourth plurality of terminals disposed on a first
- 8 surface of the IC, the third and fourth plurality of terminals electrically coupled to
- a first and a second power supply node respectively;
- wherein the first and third plurality of terminals are electrically coupled,
- and the second and fourth plurality of terminals are electrically coupled.

- 1 21. The method of Claim 20, wherein the third and fourth plurality of terminals
- 2 comprise solder bumps.
- 1 22. The method of Claim 20, wherein the first and third plurality, and the
- 2 second and fourth plurality of terminals are coupled by solder.
- 1 23. The method of Claim 20, wherein the capacitor has a substantially
- 2 rectangular shape.